

Small Mobile Computer Solution (SMCS)

Based on Proven APlus Mobile Technology (US Patent No 7,773,375)

- Designed to run in-vehicle software applications
- Intel® Atom processor and chipset
- Commercial-off-the-Shelf (COTS) Solution
- Combine Cell Modem, GPS, WiFi, VGA, RS-232, LAN & USB in one box
- Connect seamlessly to scales, RFID, and other peripherals
- Connect to monitor with single, inexpensive USB or VGA cable
- Solid State SATA Hard Drive and/or Compact Flash storage available
- Open Architecture runs all PC operating systems and software programs
- Universal 12-24VDC Power Input (10-36VDC operational)
- Custom I/O configurations available
- Mount on any flat surface in any orientation

DESIGNED FOR
MIL-STD-810G
APPLICATIONS

Temperature
Shock
Vibration



- **Power Conditioning:** Connects directly to your 12-24VDC vehicle bus (10-36VDC operational) to take advantage of our built-in internal transient protection and power management features
- **100% Sealed, Machined Aluminum Chassis:** Eliminate contaminant ingestion of dust, debris and water
- **Operates like a Standard Personal Computer:** Tested to run all standard PC Operating Systems, Programs and Peripherals
- **Complete Solution:** Intel® processors and chipsets with incorporated internal WiFi, Cell Modem and GPS
- **Designed and Manufactured in the USA**
- For more information visit www.APlusMobile.com

All trademarks are owned by their respective owners.



*Optimized for
use in vehicles*

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CAGE Code: 4P1Q1
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Specifications

- **Capability:** Open Architecture PC so it will run all currently available PC operating systems, applications and peripherals which enables the SMCS to replace or upgrade existing equipment computers. Integrate multiple applications in one box.
- **Power Efficiency:** Powered by the raw 12-24VDC bus (10-36VDC operational). External converters and adaptors not required.
- **Reliability:** Sealed to prevent contaminant ingestion of dust or water, the leading cause of field deployed computer failures; Patented Internal Power Management System provides automatic control of system's power states; Patented Thermal Management Solution provides passive cooling of sealed server; based on Intel chipsets and related components.
- **Installation:** Can be remotely mounted from monitors and peripherals for maximum flexibility.
- **Output Monitors and Displays:** Multiple solutions available.
- **Box Dimensions:** 6" L x 6.5" W x 4" H (15.2cm L x 16.5cm W x 10.1cm H) without antennas.
- **Weight:** Approx. 4.2 lbs. (1.9kg) depending on configuration.
- **Operating Temperature:** 0°C to 60°C (32°F - 140°F).

Standard I/O:
 1 x DC-IN
 1 x RS232
 1 x VGA
 1 x USB 2.0 ports
 1 x GB Ethernet
 1 x WiFi antenna
 1 x GPS antenna
 1 x Cell Modem antenna

SMCS Standard Configuration	
Processor	Intel® Atom N450 processor 1.66GHz
Chipset	Intel® ICH8-M
BIOS	Phoenix-Award v6.00PG 8Mb SPI flash BIOS
Real Time Clock	Intel® ICH8-M built-in RTC with lithium battery
Video	N450 Integrated Graphics
Location Solution (GPS)	gpsOne
WiFi	WLAN 802.11n
System Memory	2GB DDR2 SO-DIMM 667MHz SDRAM
Cell Modem	Sierra Wireless AirPrime quad-band HSPA wireless module with data speeds up to 7.2 Mbps on the downlink and up to 5.76 Mbps on the uplink. Carrier optional.
Onboard Solid State Drive	1 x 40GB Intel SSD
Enhanced IDE	1 x CompactFlash (CF) Type II socket
Onboard Audio	Realtek ALC888 HD Audio
Onboard LAN	1 x Intel® 82583V Gigabit Ethernet controller
Watchdog Timer	System reset programmable watchdog timer with 1 ~ 255 sec./min. of timeout value
Voltage Input	Universal 10-36VDC nominal line
Typical Power Consumption	<20W
Extended Interface*	1 x Mini-PCIe socket available
* All configurations must be specified at time of order. Motherboard not user accessible. Other configurations and sizes available, please consult factory.	
** Consult factory for touchscreen monitor options.	



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